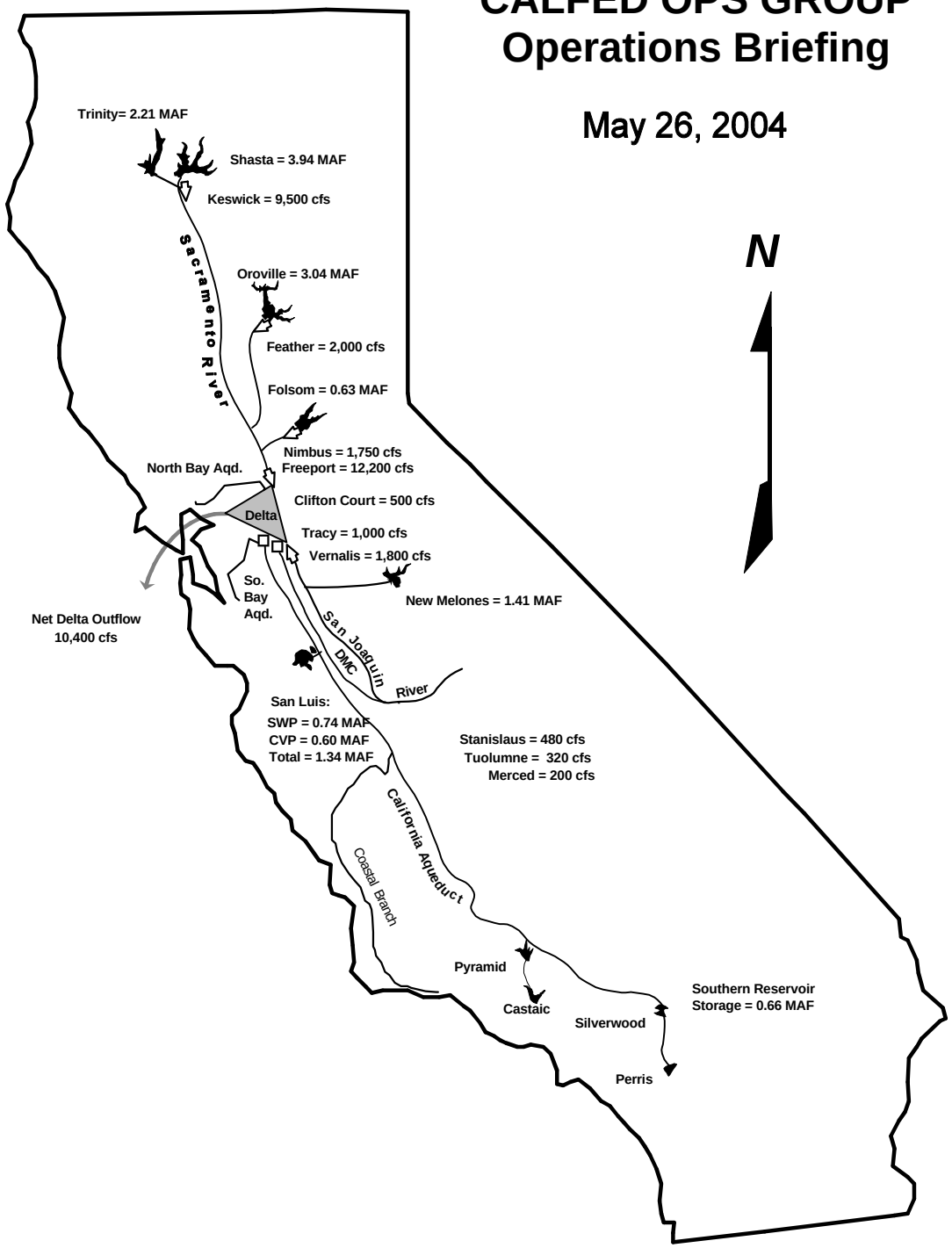
CALFED OPS GROUP
Operations Briefing

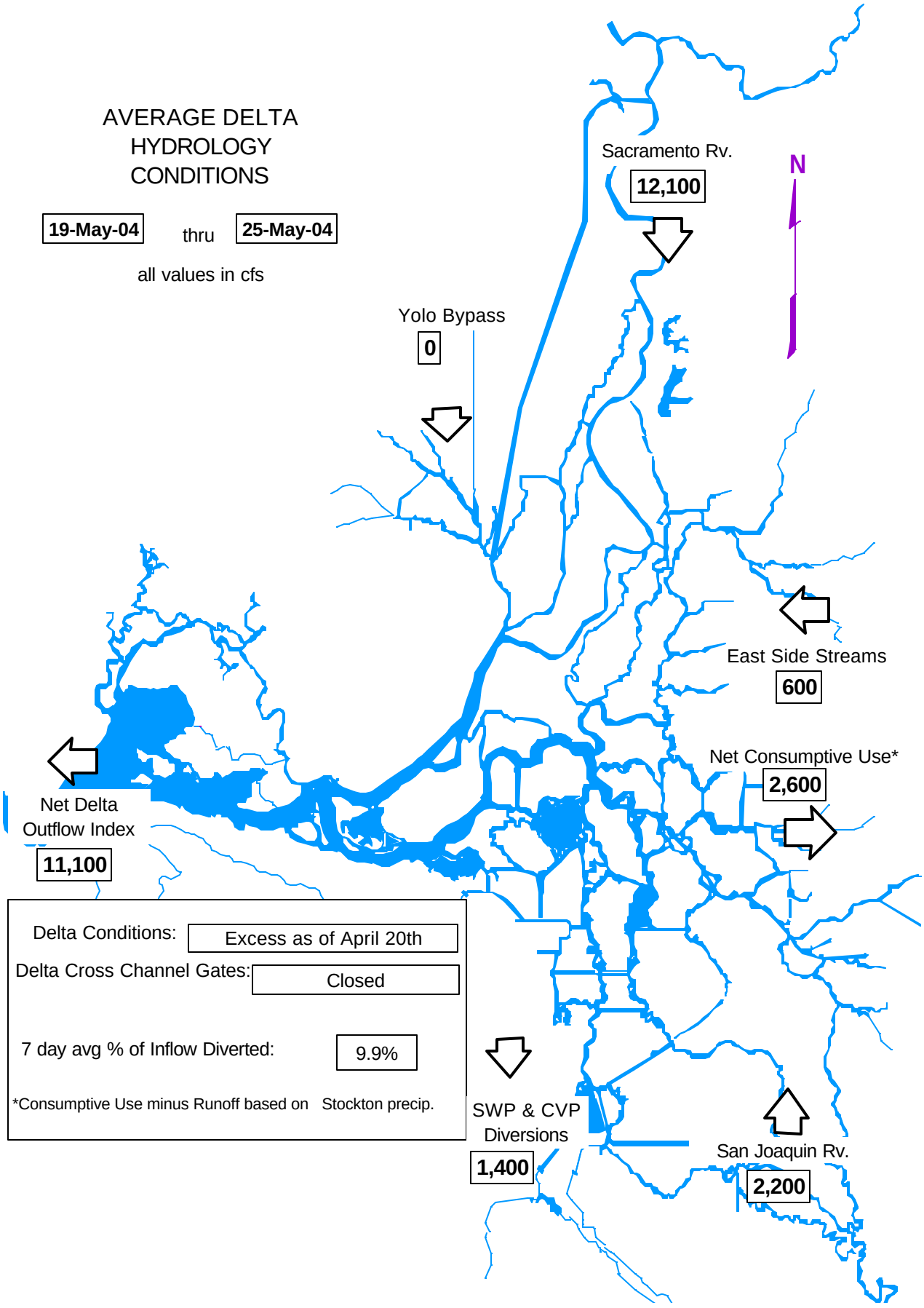
May 26, 2004



CURRENT SWP/CVP OPERATIONAL STATUS

DATA AS OF
May 26, 2004

O&M, OSC

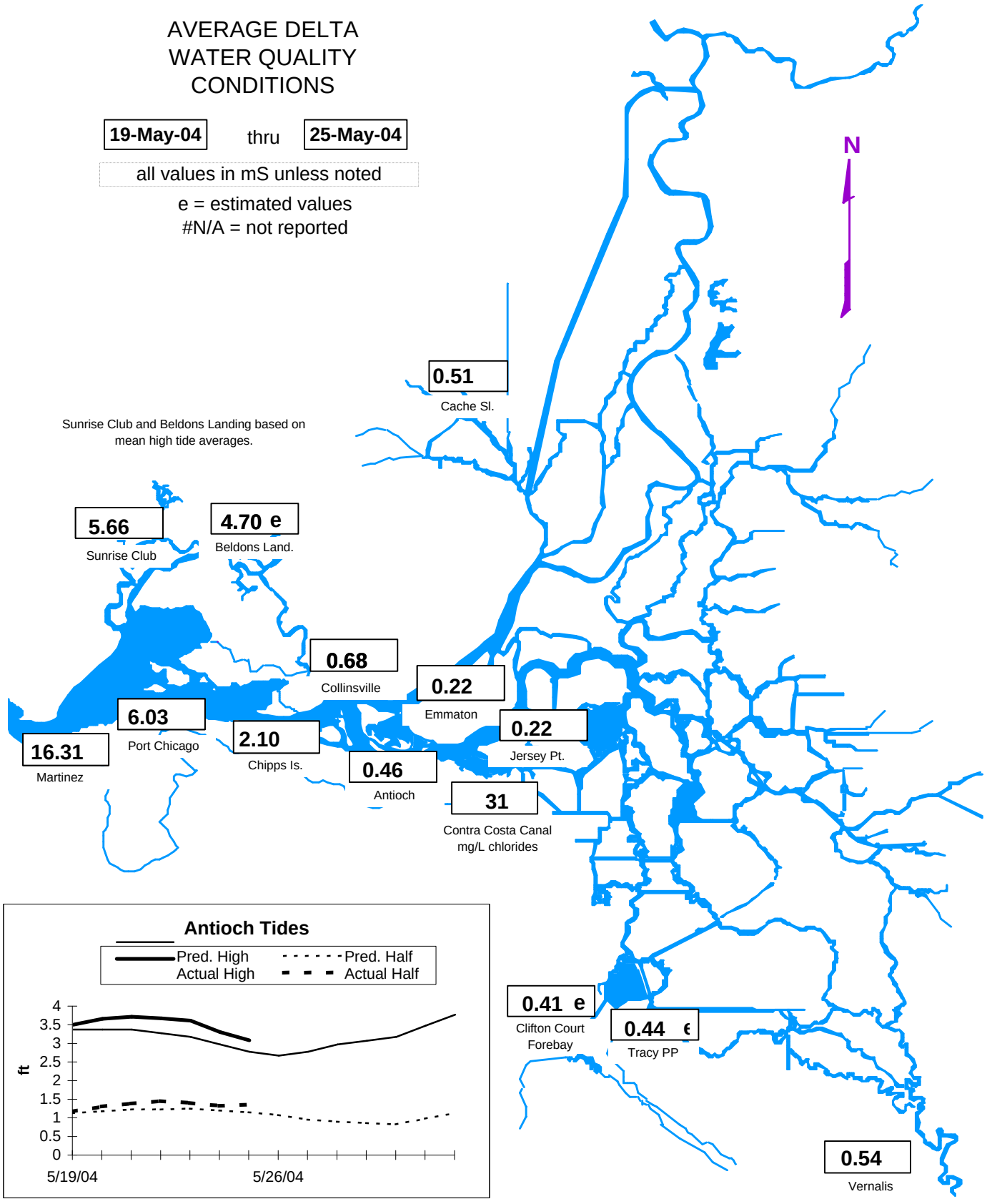

AVERAGE DELTA
HYDROLOGY
CONDITIONS
19-May-04
thru
25-May-04
all values in cfs
Sacramento Rv.
12,100
N
Yolo Bypass
0
East Side Streams
600
Net Consumptive Use*
2,600
Net Delta
Outflow Index
11,100
Delta Conditions:
Excess as of April 20th
Delta Cross Channel Gates:
Closed
7 day avg % of Inflow Diverted:
9.9%
*Consumptive Use minus Runoff based on Stockton precip.
SWP & CVP
Diversions
1,400
San Joaquin Rv.
2,200

AVERAGE DELTA WATER QUALITY CONDITIONS

19-May-04 thru **25-May-04**

all values in mS unless noted

e = estimated values
#N/A = not reported



DRAFT

Bay-Delta Standards

Contained in D-1641

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CRITERIA	May 04	Jun 04	Jul 04
FLOW/OPERATIONAL			
• Fish and Wildlife	greater of 1,500 cfs or 100% of 3-day avg. Vernalis flow.		
SWP/CVP Export Limits			
Export/Inflow Ratio	35 % of Delta Inflow		65% of Delta Inflow
Minimum Outflow - mon.			6500 cfs
- 7 day avg.			5200 cfs
Habitat Protection Outflow, X2		7100 cfs	
	Chipps Island for 16 days have been met.	30 days at collinsville,	
River Flows:			
@ Rio Vista - min. mon. avg.			
- 7 day average			
@ Vernalis: Base -min. mon. avg.		2280 cfs	
- 7 day average		1824 cfs	
Pulse objective	3200 cfs	gates may close 4 consec. days ea. wk.	
Delta Cross Channel Gates	Closed	May 21 - June 15 close 14 days per CALFED Op's	
WATER QUALITY STANDARDS			
• Municipal and Industrial			
All Export Locations	Cl <= 250 mg/l		
Contra Costa Canal	Cl <= 150 mg/l for 175 days for Below Normal Year Type		
• Agriculture			
Western/Interior Delta	Max. 14-day average EC mmhos/cm: 0.45 mS/cm		
Southern Delta	30-day running average EC <= 0.7 mS		
• Fish and Wildlife			
San Joaquin River Salinity	14-day avg; 0.44 EC		
Suisun Marsh Salinity	11.0 mhtEC		

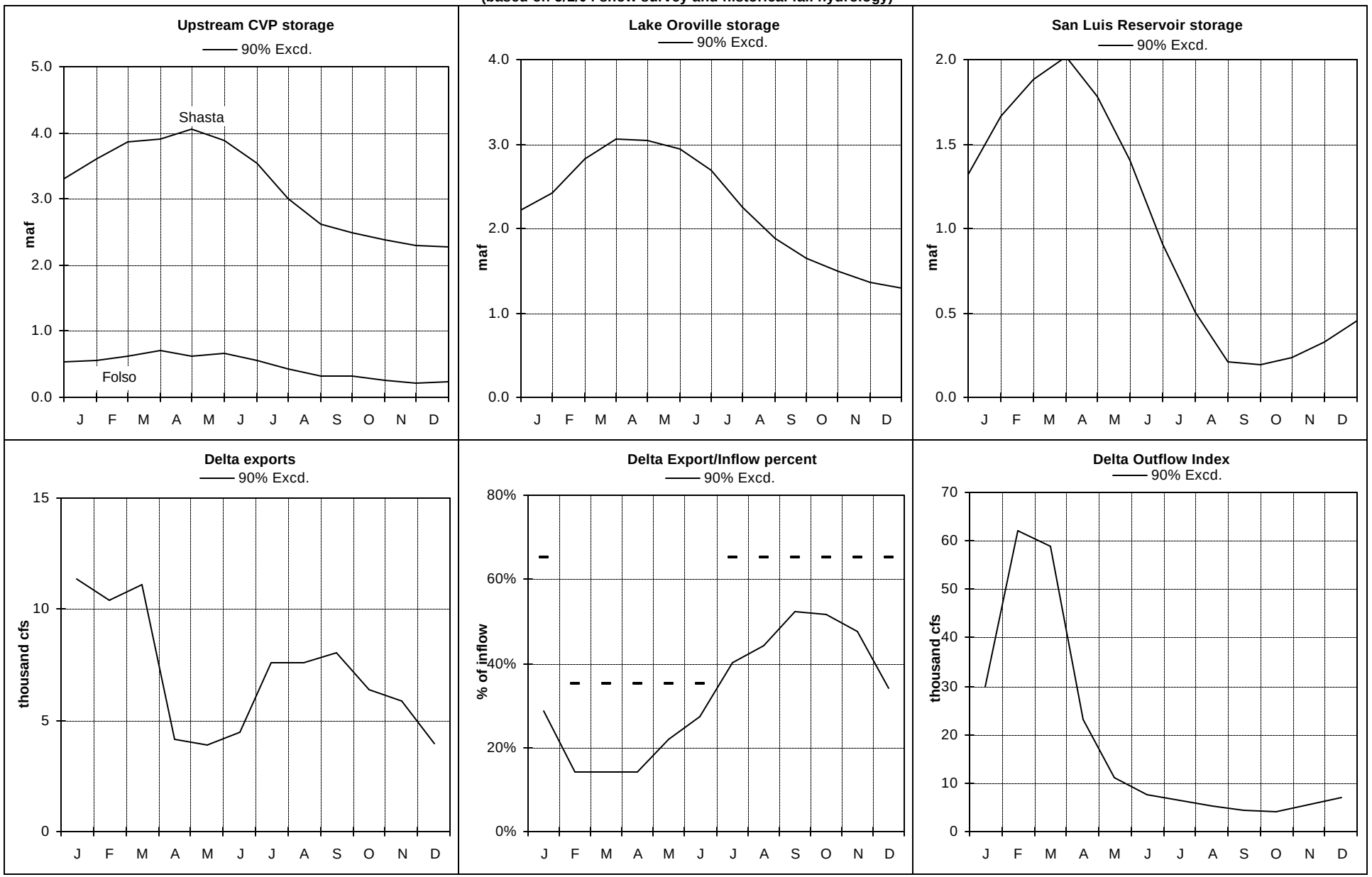
Water Year Classification: (May 1 forecast)

SRI (40-30-30 @ 50%) = 7.7 (BN) May 8RI: 2.650 MAF

SJV (60-20-20 @75%) =2.2 (Dry)

SWP & CVP CY 2004 Forecasted Operations

(based on 5/1/04 snow survey and historical fall hydrology)



WY 2003/2004 EWA Accounting Summary

Based upon May Operations Study - 90% Exceedance Hydrology

Assumptions: SWP Allocation - 65%; NOD Purchases - 120 TAF; SOD Purchases - 35 TAF; MWD SS - 49 TAF

EWA NOD and SOD Storage ((+ = Acquisitions) and (- = Releases))

1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD (Oroville) [0]	0.398					-0.398 [3]											0
NOD (YCWA/PCWA)										120 [4 5]	-50 [4 5]	-50 [4 5]	-20 [4 5]				0
Carriage Water Loss [2]											-10	-10	-4				-24
SOD (KCWA/SCVWD)									35 [6]	-15 [6]	-10 [6]	-10 [6]					0
SOD (MWD)																	0

EWA Asset Acquisition in SWP San Luis [1]

2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
EWA share of SWP gain																	0
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using NOD storage																	0
Xfer NOD - Sacramento River [2]											4 [4 5]	4 [4 5]	16 [4 5]				25
Xfer NOD - San Joaquin River [2]																	0
SOD SWP Surface/GW Purchases										15 [6]	10 [6]	10 [6]					35
Exchange of EWA assets																	0
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**15**	**14**	**14**	**16**	**0**	**0**	**0**	**60**

EWA Asset Acquisition in CVP San Luis

3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
Project Pumping to reduce EWA debt							0.202										0
JPOD using excess flows																	0
JPOD using NOD storage											36 [4 5]	36 [4 5]					71
Xfer NOD - Sacramento River [2]																	0
Xfer NOD - San Joaquin River [2]																	0
SOD CVP Surface/GW purchases																	0
Exchange of EWA assets																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**36**	**36**	**0**	**0**	**0**	**0**	72

EWA Expenditures at the Export Pumps

4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts								-12 [7]	-80 [7]								-93
CVP export cuts									-71 [8]								-71
Total Expenditures	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**-12**	**-152**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**-164**

EWA End-of-Month Incremental Storage Changes

5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	0.057	0	0	0	0	0	0	-12	-80	15	14	14	16	0	0	0	-33
CVP in SL	-0.202	0.000	0.000	0.000	0.000	0.000	0.202	0	-71	0	36	36	0	0	0	0	0
NOD Storage	0.398	0	0	0	0	-0.398	0	0	0	120	-50	-50	-20	0	0	0	0
SOD Storage (non-S.L.)	0.000	0	0	0	0	0	0	0	35	-15	-10	-10	0	0	0	0	0
Total Incremental Storage Changes	**0.253**	**0**	**0**	**0**	**0**	**0**	**0**	**-12**	**-117**	**120**	**-10**	**-10**	**-4**	**0**	**0**	**0**	**-33**

EWA End-of-Month Storage Balance at Various Sites

6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SWP in SL (without Source Shift)	0.057	0	0	0	0	0	0	-12	-93	-78	-63	-49	-33	-33	-33	-33
CVP SL	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	0	0	-71	-71	-36	0	0	0	0	0
NOD Storage	0.398	0.398	0.398	0.398	0.398	0.000	0	0	0	120	70	20	0	0	0	0
SOD Storage (non-S.L.)	0.000	0	0	0	0	0	0	0	35	20	10	0	0	0	0	0
EWA Asset Balance	**0.253**	**0**	**0**	**0**	**0**	**0**	**0**	**-12**	**-129**	**-9**	**-19**	**-29**	**-33**	**-33**	**-33**	**-33**

San Luis Reservoir Storage Conditions

7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Storage (base case) [9]		650	788	1010	1665	1879	2020	1781	1366	824	424	142	149	214	286	403
Encroachment																
Total Storage (EWA case)		650	788 0	1010	1664	1878	2020	1768	1202	675	325	93	116	181	253	369
MWD Source Shifting											24	25	-12	-12	-12	-12
Storage (with MWD source shifting)		**650**	**788**	**1010**	**1664**	**1878**	**2020**	**1768**	**1202**	**675**	**349**	**142**	**153**	**205**	**265**	**369**

[0] 2004 NOD Purchases = 65(YCWA) + 20(PCWA). YCWA has firm 65 taf; can exercise options for an additional 85 taf.

[1] Aqueduct conveyance and evaporation losses are not included.

[2] Carriage water loss applies to water transfers from the Sacramento River (assumed to be 20% until modeling results indicate otherwise); a 10% conveyance loss applies to water transfers from the San Joaquin River. Carriage water loss in WY 2003 was 0%.

[3] The SWP spilled ~ 400 af of EWA water stored in Oroville during flood control operations.

[4] 2004 YCWA Transfer (Joint place of use) [5] 2004 PCWA Transfer (Joint place of use)

[6] 2004 SOD Transfers - 35 TAF from KCWA (SWP place of use)

[7] The SWP cost for VAMP and its shoulders are estimated to be 33 TAF and 60 TAF, respectively (based upon the SWP April studies).

[8] The CVP cost for "shoulders" on VAMP is estimated to be 71 TAF (based upon the CVP April B2 studies).

[9] Based upon DWR's 90% (90% Fall) allocation study (dated 5/2004).